FORM PTO-1	449		DOCKET NU FGT 3840			APPI	LICATION N	UMB	ER	
	ORMATION DISC ATION IN AN APPI			APPLICANT(S) GOPICHANDRA SURNILLA						
			FILING DATE			GROUP ART UNIT				
		U.S. PAT	TENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	N.A	ME		CLASS	S SUB CLASS		L DATE APPROP.	
25	3,696,318	10-10-72	Boyd et al							
95	3,696,618	10-10-72	Boyd et al							
٤٢	3,969,932	7-20-76	Rieger et a							
٤,5	4,033,122	7-5-77	Masaki et a	ıl						
95	4,036,014	7-19-77	Ariga							
. 95	4,046,126	9-77	Takemoto							
٤5	4,051,673	10-77	Masaki							
65	4,134,261	1-16-79	lizuka et al			•				
ΈŞ	4,172,434	10-30-79	Coles							
۶ ۶	4,178,883	12-18-79	Herth			•				
65	4,207,855	6-17-80	Phillips							
		FOREIGN P.	ATENT DOO	CUMENT	S					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS		UB ASS	TRANSLAT. YE		NC	
59	1496605	12-30-77	GB							
55	55-29002	3-1-80	JP				Abstract or	nly		
45	55-49549	4-10-80	JP				Abstract or	nly	· 	
		ОТНЕ	R DOCUME	NTS .		\				
25		, "An Air/Fuel Algo Technical Paper No						-Base	d	
25	Catalysts", INTE	al, "Effect of Air-Fu R-INDUSTRY EM SAE Technical Par	ISSION CONT.	ROL PROC	GRAN	M 2 (II	EC-2) PROC			
95	ALAN F. DIWE Burn Application	LL, "Engineered Co as", SAE Technical	ontrol Strategies Paper No. 8815	For Improv 95, 1998, p	ved C p. 1-1	atalyt	ic Control of	Nox	n Lean	
EXAMINER	24	•	DATE CONS	IDERED	10	1281	04		-	

FORM PTO-1	449		DOCKET N FGT 38			APPLI	CATION N	IUMBER		
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			FILING DATE			GROUP ART UNIT				
		U.S. PAT	ENT DOC	UMENTS	3					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME		CLASS	SUB CLASS	FIL. DATE IF APPROP.		
<i>{</i> }	4,251,989	2-24-81	Norimats	u et al						
95	4,305,249	12-15-81	Schmid e	t al			·			
٤ς	4,550,704	11-85	Barho et	al				*		
٤ ς	4,622,809	11-18-86	Abthoff of	et al						
85	4,690,116	9-1-87	Takahash	ni						
45	4,854,123	8-8-89	Inoue et	al						
£5	4,860,716	8-29-89	Deutschn	nann						
. 65	4,884,066	11-28-89	Miyata et	al						
٤5.	4,913,122	4-3-90	Uchida e	t al						
95	4,964,272	10-23-90	Kayanun	ia ·						
. 45	5,009,210	4-23-91	Nakagaw	a et al						
		FOREIGN P	ATENT DO	CUMEN	ITS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SU CLA		TRANSLATION YE			
95	2090331	7-7-82	GB					•		
4/5	62-97630	5-7-87	JP			Al	ostract on	ly		
و۶	62-117620	5-29-87	JP		<u></u>	Al	ostract on	ly		
·		ОТНЕ	R DOCUM	ENTS						
کر ج		ΓZLER, "Application of the Control								
45		W.H. HOLL, "Air Fuel Control to Reduce Emissions, I. Engine-Emissions Relationships", SAE 800051, February 25-29, 1980, pp. 1-10								
45	WEI-MING WA Under Cyclic Co	NG, "Air-Fuel Connditions", SAE 800	trol to Reduce 052, February	Emissions 25-29, 198	, II. E:	ngine-Ca 1-13	talyst Char	acterization		
EXAMINER	4		DATECO	NSIDERED	16	28/04	(

FORM PTO-1	449		DOCKET N FGT 384			APPLI	CATION N	UMBER		
	ORMATION DISCI ATION IN AN APPI		APPLICAN GOPICI	T(S) IANDRA	SURN	RNILLA				
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		U.S. PAT	ENT DOC	UMENTS	3			-		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME		CLASS	SUB CLASS	FIL. DA IF APPR		
95	5,088,281	2-18-92	Izutani et	al						
<u> </u>	5,097,700	3-24-92	Nakane							
45	5,165,230	11-24-92	Kayanum	a et al						
85	5,174,111	12-29-92	Nomura e	et al						
45	5,189,876	3-2-93	Hirota et	al						
95	5,201,802	4-13-93	Hirota et	al						
95	5,209,061	5-11-93	Takeshim	ıa						
45	5,222,471	6-29-93	Stueven	•		•				
٤ 5	5,233,830	8-10-93	Takeshim	a et al						
G	5,245,978	9-21-93	Orzel							
و ح	5,267,439	12-7-93	Raff et al							
		FOREIGN P	ATENT DO	CUMEN	ITS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS		TRANSLATIO YE:		NO	
95	62-247176	10-28-87	JP			Ab	stract on	ly		
95	64-53042	3-1-89	JP			Ab	stract on	ly		
25	0 351 197	1-17-90	EP							
	,	ОТНЕ	R DOCUM	ENTS				÷		
٠ ٤٢		D. DE BOER et al, n Applications", SA						ytic Contr	ol of	
25	TOOSHIAKI YA JSAE 882072-88	MAMOTO et al, "I 2166, pp. 1-10	Oynamic Beh	avior Analy	ysis of Th	ree W	ay Catalyti	ic Reaction	a",	
		<u>-</u>								
EXAMINER	55		DATE CO	NSIDERED	10/2	8/04				

FORM PTO-1	449		DOCKET 1 FGT 38		_	APPLI	CATION N	IUMBER			
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	·	U.S. PA	TENT DOC	UMENTS	3						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME		CLASS	SUB CLASS		DATE PROP.		
85	5,267,548	12-7-93	Rosenzo	pf et al							
95	5,270,024	12-14-93	Kasahara et al								
95	5,272,871	12-28-93	Oshima (et al							
65	5,325,664	7-5-94	Seki et a								
95	5,331,809	7-26-94	Takeshin	na et al					3		
95	5,335,538	8-9-94	Bilschke	et al							
૧૬	5,357,750	10-25-94	Ito et al								
٤٤	5,375,415	12-27-94	Hamburg	g et al					•		
55	5,377,484	1-3-95	Shimizu	•							
٤S	5,402,641	4-4-95	Katoh et	al							
£5	5,410,873	5-2-95	Tashiro								
		FOREIGN I	PATENT D	OCUMEN	ITS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS		TRANSLAT YE		NO		
45	2-30915	2-1-90	JP			A	bstract or	nly			
95	2-33408	2-2-90	JP			A	bstract of	nly			
~S	2-207159	8-16-90	JP			A	bstract or	nly			
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		U.S. PA	TENT DOCU	IMENTS)				·	
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55	5,412,945	5-9-95	Katoh et a	1						
55	5,412,946	5-9-95	Oshima et	al						
ÇŞ	5,414,994	5-16-95	Cullen et	al						
\$\$	5,419,122	5-30-95	Tabe et al							
45	5,423,181	6-13-95	Katoh et a	1						
95	5,433,074	7-18-95	Seto et al		, in					
ES	5,437,153	8-1-95	Takeshim	a et al						
95	5,448,887	9-12-95	Takeshim	a						
95	5,450,722	9-12-95	Takeshim	a et al						
25	5,452,576	9-26-95	Hamburg	et al		•				
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		FOREIGN	PATENT DO	CUMEN	TS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS		TRANSLATIO YES	ON	N	
५ ५	3-135417	6-10-91	JP			Ab	stract on	ly		
95	0 444 783	9-4-91	EP							
95	0 503 882	9-16-92	EP							
	_	OTH	ER DOCUME	ENTS						
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			FILING DATE	FILING DATE GROUP ART UNIT					
		U.S. PAT	TENT DOCUM	IENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAM	Æ.	Ct.	ASS	SUB CLASS	FIL. DAT IF APPRO	
55	5,472,673	12-5-95	Goto et al						
95	5,473,887	12-12-95	Takeshima e	et al .	-				
45	5,473,890	12-12-95	Takeshima e	et al					
۶۶	5,479,898	1-2-96	Cullen et al						
95	5,483,795	1-16-96	Katoh et al					-	
·	5,496,228	3-5-96	Takata et al						
98	5,497,745	3-12-96	Cullen et al						
· '	5,544,482	8-13-96	Matsumoto	et al					
95	5,551,231	9-3-96	Tanaka et al						
95	5,577,382	11-26-96	Kihara et al						
٤5	5,595,060	1-21-97	Togai et al		ŀ				
		FOREIGN P	ATENT DOC	UMENT	ΓS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS		TRANSLAT		NC
- 25	5-26080	2-2-93	JP			A	bstract or	nly	
G (5-106493	4-27-93	JP			A	bstract or	nly	
95	5-106494	4-27-93	JP			A	bstract or	nly	
		ОТНЕ	R DOCUMEN	TS			,		
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		U.S. PA	TENT DOC	UMENTS	 S					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME		CLASS	SUB CLASS	FIL. DATE IF APPROP.		
45	5,598,703	2-4-97	Hamburg	et al						
95	5,622,047	4-22-97	Yamashi	Yamashita et al						
٤۶	5,626,014	5-6-97	Hepburn	et al						
95	5,626,117	5-6-97	Wright et	al						
25	5,647,207	7-15-97	Grotjahn	et al						
٤ ع	5,655,363	8-12-97	Ito et al							
45	5,657,625	8-19-97	Koga et a	ıl						
٤	5,693,877	12-2-97	Ohsuga e	t al		•				
9.5	5,713,199	2-3-98	Takeshim	a et al				******		
25	5,715,679	2-10-98	Asanuma	et al				1		
95	5,722,236	3-3-98	Cullen et	al		·				
		FOREIGN	PATENT DO	CUMEN	ITS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLAS		TRANSLATION YES	NO		
65	0 580 389	1-26-94	EP				<u></u>			
95	6-58139	3-1-94	JP			Ab	stract only	,		
٤ς	6-264787	9-20-94	JP			Ab	stract only	;		
:		ОТН	ER DOCUM	ENTS						
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		U.S. PA	TENT DOC	UMENT	S					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME		CLASS	SUB CLASS		L. DATE APPROP.	
. 55	5,724,808	3-10-98	Ito et al							
ES	5,727,522	5-17-98	Otani et	al						
95	5,732,554	3-31-98	Sasaki et	al						
45	5,735,119	4-7-98	Asanuma	et al						
<i>5</i> 5	5,740,669	4-21-98	Kinugasa	et al		-				
. ES	5,743,084	4-28-98	Hepburn							
૧૬	5,746,049	5-5-98	Cullen et	al						
. [5	5,746,052	5-5-98	Kinugasa	et al					*	
95	5,752,492	5-19-98	Kato et a	1						
£S.	5,771,685	6-30-98	Hepburn			-				
٤ς	5,771,686	6-30-98	Pischinge	er et al						
		FOREIGN I	PATENT DO	CUME	NTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS		translatio YES	NC	NC	
<i>? 3</i> .	7-35016	2-3-95	JP			Ab	stract on	ly		
95	7-97941	4-11-95	JP			Ab	stract on	ly		
95	2283111	4-26-95	GB							
		ОТНІ	ER DOCUM	ENTS						
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FORM PTO-1	449		DOCKET NU FGT 3840		Al	PPLIC	CATION NU	MBER ,		
	FORMATION DISC ATION IN AN APP		APPLICANTO GOPICHA		SURNI	RNILLA				
			FILING DATE			GROUP ART UNIT				
		U.S. PAT	ENT DOCU	MENTS		***************************************				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE .	N.	AME	CL	ASS	SUB CLASS	FIL. DATE IF APPROP.		
95	5,778,666	7-14-98	Cullen et a	1						
95	5,792,436	8-11-98	Feeley et a	1				_		
4S .	5,802,843	9-8-98	Kurihara e	t al						
9S.	5,803,048	9-8-98	Yano et al							
45	5,832,722	11-10-98	Cullen et a	1						
ન્ ડ્ર	5,842,340	12-1-98	Bush et al							
95	5,865,027	2-2-99	Hanafusa e	t al						
65	5,930,992	8-99	Esch et al							
٤ 5	5,938,715	8-17-99	Zang et al							
85	5,950,603	9-99	Cook et al							
٤Ś	5,970,707	10-26-99	Sawada et	al						
45	5,974,793	11-2-99	Kinugasa e	t al	•					
										
	•	FOREIGN P	ATENT DO	CUMEN	TS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS		TRANSLATION YES	NO		
95	7-166851	6-27-95	JP			A۱	ostract onl	у		
<u> </u>	196 07 151	7-10-97	DE			Al	ostract onl	у		
વડ	98/27322	6-25-98	WIPO							
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FORM PTO-1	449				AF	PLIC	DOCKET NUMBER APPLICATION NUMBER FGT 384CON						
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		U.S. PAT	ENT DOCU	MENTS	3								
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	N/	AME	CL	ASS	SUB CLASS		DATE APPROP.				
દૃડ	5,974,788	11-2-99	Hepburn et	al									
و ۶۰	5,974,791	11-2-99	Hirota et al										
٤5	5,983,627	11-16-99	Asik			_							
· {5	5,992,142	11-30-99	Pott						-i				
.95	5,996,338	12-7-99	Hirota										
વેડ	6,012,428	1-11-00	Yano et al										
.25	6,014,859	1-18-00	Yoshizaki	et al									
45	6,023,929	2-15-00	Ma						• • • • • • • • • • • • • • • • • • • •				
25	6,058,700	5-9-00	Yamashita	et al									
ξŠ	6,158,218	12-12-00	Herold et a	1				•					
ર્ડ	6,189,316	2-20-01	Surnilla et	al									
٤5	6,247,445	6-19-01	Langer										
		FOREIGN P	ATENT DOO	CUMEN	TS								
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26	10107158	8-23-01	DE			Ab	stract on	ly					
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			FILING DATE	GR	OUP AR	T UNIT	
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL/			FIL. DATE F APPROP,
85	6,276,138	8-21-01	Welch				
٤5	6,305,344	10-31-01	Perry				
ES .	6,345,496	2-12-02	Fuwa et al	-			
٤5.	6,349,710	2-26-02	Kawai et al				
٩٤	6,360,713	3-26-02	Kolmanovsky et al				
95	6,367,443	4-9-02	Bassu et al				
٤ς	6,382,193	5-7-02	Boyer et al				
25	6,389,806	5-21-02	Glugla et al				
٤5	6,408,618	6-25-02	Ide				
25	6,415,601	7-9-02	Glugla et al				
55	6,467,259	10-22-02	Surnilla et al		_		
٤٢	6,543,219	4-8-03	Surnilla				
٤5	6,619,241	9-16-03	Otterspeer et al				
		FOREIGN PA	ATENT DOCUMENT	S			
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL	ASS	SUB CLASS		L. DATE APPROP.
85	6,546,910	4-15-03	Tanaka et al					
E5	6,550,240	4-22-03	Kolmanovsky et al					-
Ε5	6,568,177	5-27-03	Surnilla	-				
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		OTHER	DOCUMENTS					
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DOCKET NUMBER APPLICATION NUMBER **FORM PTO-1449** 10/809,774 FGT 384CON INFORMATION DISCLOSURE APPLICANT(S) CITATION IN AN APPLICATION **GOPICHANDRA SURNILLA GROUP ART UNIT** FILING DATE March 24, 2004 U.S. PATENT DOCUMENTS FIL. DATE IF APPROP. **CLASS** SUB CLASS NAME DATE EXAMINER DOCUMENT INITIAL NUMBER 1-19-93 Manaka 5,179,924 8-1-95 Huffmaster et al 5,437,253 Cullen et al 1-16-96 5,483,941 5,492,094 2-20-96 Cullen et al Marzonia et al 5-13-97 5,628,299 Sagisaka et al 9-30-97 5,672,817 Yasui et al 6,116,213 9-12-00 6,244,242 6-12-01 Grizzle et al 12-4-01 Surnilla et al 6,324,835 Yasui et al 12-11-01 6,327,850 Isobe et al 1-14-03 6,505,464 King et al 6,539,784 4-1-03 Matthews et al 6,615,804 9-9-03 2003/0221664 Surnilla 12-4-03 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER COUNTRY TRANSLATION CLASS DATE SUB CLASS YES NO 2056556 7-2-80 GB OTHER DOCUMENTS DATE CONSIDERED 88 **EXAMINER** 10/28/04